

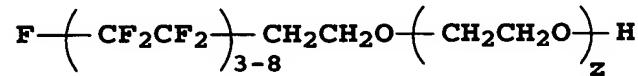
**WHAT IS CLAIMED IS:**

1. An image-recording element comprising a support and an image-receiving layer, wherein said imaging receiving layer comprises anionic colloidal silica particles, hydrophilic polymeric binder, and fluorosurfactant, wherein said binder is present in an amount of between 2% and 15% by weight of said image-receiving layer, said image-recording element has a 60-degree gloss of greater than 25, and a dry time of less than 1 minute.
2. The image-recording element of claim 1 wherein said anionic colloidal silica particles have a median diameter of between 50 and 300 nm.
3. The image-recording element of claim 1 wherein said anionic colloidal silica particles have a median diameter of between 80 and 200 nm.
4. The image-recording element of claim 1 wherein the counterion for said anionic colloidal silica particles comprises potassium.
5. The image-recording element of claim 1 wherein at least 80% of said anionic colloidal silica particles have a diameter of within 35% smaller or larger than the median diameter of said anionic colloidal silica particles.
6. The image-recording element of claim 1 wherein said hydrophilic polymeric binder is poly(vinyl alcohol).
7. The image-recording element of claim 1 wherein said hydrophilic polymeric binder is poly(vinyl alcohol) having a percent hydrolysis of 77 to 90.
8. The image-recording element of claim 1 wherein said hydrophilic polymeric binder is poly(vinyl alcohol) having a viscosity for a 4% aqueous solution at 20° C of 2.5 to 12 cps.

9. The image-recording element of claim 1 wherein said hydrophilic polymeric binder is gelatin.

10. The image-recording element of claim 1 wherein said hydrophilic polymeric binder is poly(vinyl alcohol-co-ethyleneoxide).

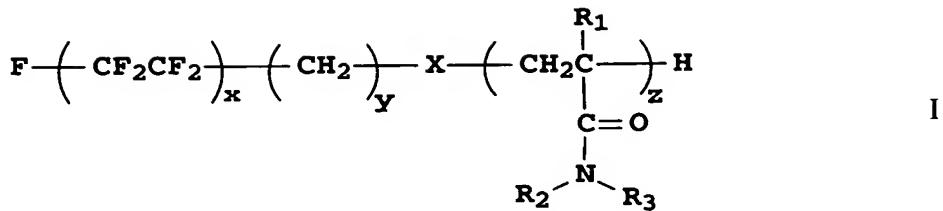
11. The image-recording element of claim 1 wherein said fluorosurfactant is selected from at least one member of the group consisting of:



wherein  $x < y < z$  and  $x, y$ , and  $z$  are between 0 and 25 and wherein the distribution of the perfluoroethylene units in the perfluorinated portion of the three surfactants is different.

12. The image-recording element of claim 1 wherein said fluorosurfactant comprises polymeric fluorosurfactants.

13. The image-recording element of claim 1 wherein said fluorosurfactant comprises an oligomeric acrylamide of the general formula I:



wherein

$x$  is 2 to 8;

$y$  is 2 to 6;

$z$  is 5 to 60;

$\text{X}$  is  $\text{S}$  or  $-\text{O}-\overset{\text{O}}{\underset{\parallel}{\text{C}}}-\left(\text{CH}_2\right)_p\text{S}-$ , where  $p$  is 1 to 3;

$\text{R}_1$  is  $\text{H}$  or  $\text{C}_1\text{-C}_3$  alkyl;

$\text{R}_2$  and  $\text{R}_3$  can be any of the following combinations:

$\text{R}_2$  and  $\text{R}_3$  each independently represent an unsubstituted or substituted alkyl or aryl group,

$\text{R}_2$  is  $\text{H}$  and  $\text{R}_3$  is an isopropyl group, or

$\text{R}_2$  and  $\text{R}_3$ , together with the adjacent  $\text{N}$  atom, form a heterocyclic ring.

14. The image-recording element of claim 13 wherein

$x$  is 3 or 4;

$y$  is 2 or 3;

$z$  is 5 to 15;

$\text{X}$  is  $\text{S}$ ;

$\text{R}_1$  is  $\text{H}$ ; and

$\text{R}_2$  and  $\text{R}_3$  can be any of the following combinations:

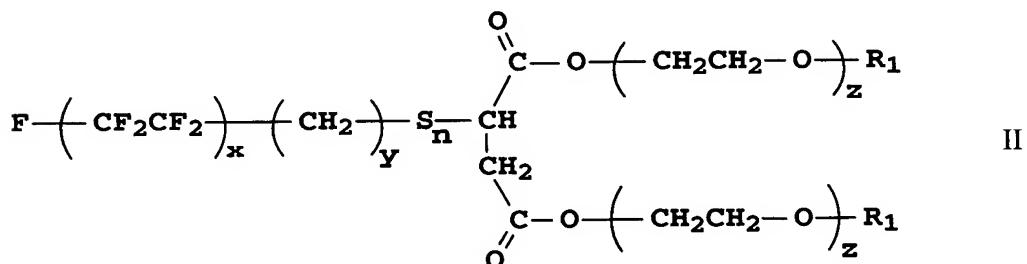
$\text{R}_2$  and  $\text{R}_3$  each independently represent a methyl or ethyl group, or

$\text{R}_2$  is  $\text{H}$  and  $\text{R}_3$  is an isopropyl group.

15. The image-recording element of claim 13 wherein

x is 3 or 4;  
y is 2;  
z is 5 to 10;  
X is S;  
R<sub>1</sub> is H; and  
R<sub>2</sub> and R<sub>3</sub> are methyl groups.

16. The image-recording element of claim 1 wherein said fluorosurfactant comprises an ethylene oxide oligomer of general formula II:



wherein

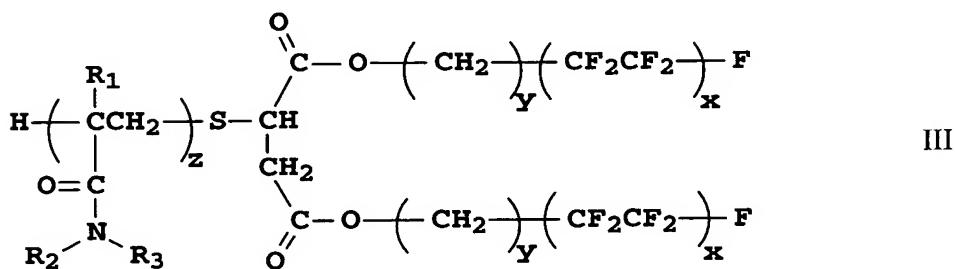
x is 2 to 8;  
y is 1 to 6;  
z is 4 to 30;  
n is 0 or 1;  
R<sub>1</sub> is H, a methyl or an ethyl group.

17. The image-recording element of claim 16 wherein  
x is 3 or 4;  
y is 2 or 3;  
z is 10 to 18;  
n is 1; and  
R<sub>1</sub> is a methyl group.

18. The image-recording element of claim 16 wherein

x is 3 or 4;  
y is 2;  
z is 12 to 16;  
n is 1; and  
R<sub>1</sub> is a methyl group.

19. The image-recording element of claim 1 wherein said fluorosurfactant comprises an oligomeric acrylamide of general formula III:



wherein

x is 2 to 8;  
y is 2 to 6;  
z is 5 to 60;  
R<sub>1</sub> is H or C<sub>1</sub>-C<sub>3</sub> alkyl; and  
R<sub>2</sub> and R<sub>3</sub> can be any of the following combinations:  
R<sub>2</sub> and R<sub>3</sub> each independently represent an unsubstituted or substituted alkyl or aryl group,  
R<sub>2</sub> is H and R<sub>3</sub> is an isopropyl group, or  
R<sub>2</sub> and R<sub>3</sub>, together with the adjacent N atom, form a heterocyclic ring.

20. The image-recording element of claim 19 wherein

x is 3 or 4;  
y is 2 or 3;  
z is 16 to 50;

$R_1$  is H or methyl; and

$R_2$  and  $R_3$  can be either of the following combinations:

$R_2$  and  $R_3$  each independently represent a methyl or ethyl group, or

$R_2$  is H and  $R_3$  is an isopropyl group.

21. The image-recording element of claim 19 wherein

$x$  is 3;

$y$  is 2;

$z$  is 25;

$R_1$  is H; and

$R_2$  and  $R_3$  represent a methyl group.

22. The image-recording element of claim 1 wherein said fluorosurfactant comprises between 0.05% and 3% of said image-receiving layer by weight.

23. The image-recording element of claim 1 wherein said image-receiving layer further comprises a latex polymer having a glass transition temperature of less than 30° C.

24. The image-recording element of claim 23 wherein said latex polymer is present in an amount of between 4% and 15% by weight of said image-receiving layer.

25. The image-recording element of claim 1 wherein said image-receiving layer further comprises a hardener.

26. The image-recording element of claim 1 wherein said image-receiving layer comprises borax; boric acid or its salts; 1,4-dioxane-2,3-diol; glyoxal; or bis(vinylsulfonyl)methane as a hardener.

27. The image-recording element of claim 1 wherein said support is nonporous and said image-receiving layer has a total coverage 35 and 65 g/m<sup>2</sup>.

28. The image-recording element of claim 1 wherein said support is porous and said image-receiving layer has a total coverage of between 4 and 30 g/m<sup>2</sup>.

29. The image-recording element of claim 1 wherein said support is porous and said image-receiving layer has a total coverage of between 6 and 20 g/m<sup>2</sup>.

30. The image-recording element of claim 1 wherein an ink-absorbing layer is present between said support and said image-receiving layer.

31. The image-recording element of claim 30 wherein said ink-absorbing layer is porous, and said image-receiving layer has a total coverage of between 4 and 30 g/m<sup>2</sup>.

32. The image-recording element of claim 30 wherein said ink-absorbing layer is porous, and said image-receiving layer has a total coverage of between 6 and 20 g/m<sup>2</sup>.

33. The image-recording element of claim 1 wherein the surface pH of said image-receiving layer moistened with water is between 8 and 10.

34. The image-recording element of claim 1 wherein said image-recording element comprises an inkjet image-recording element.